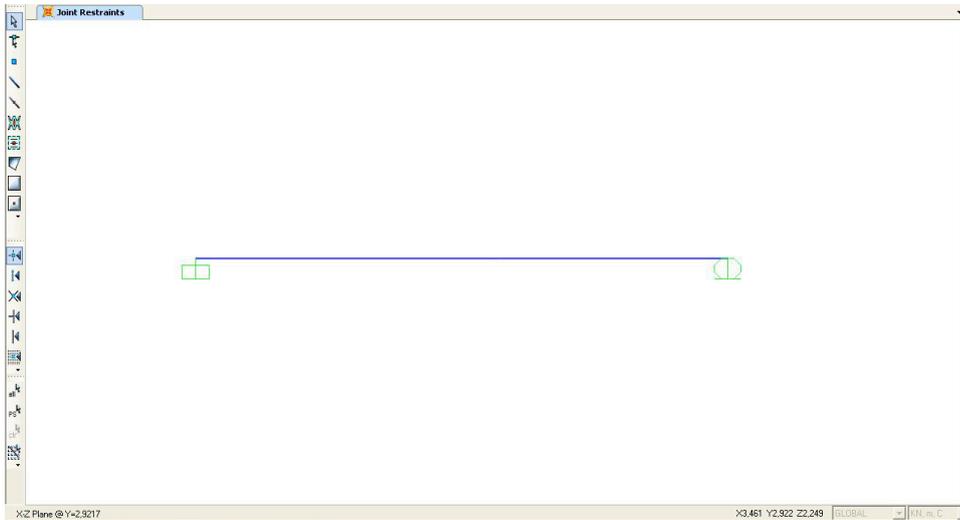


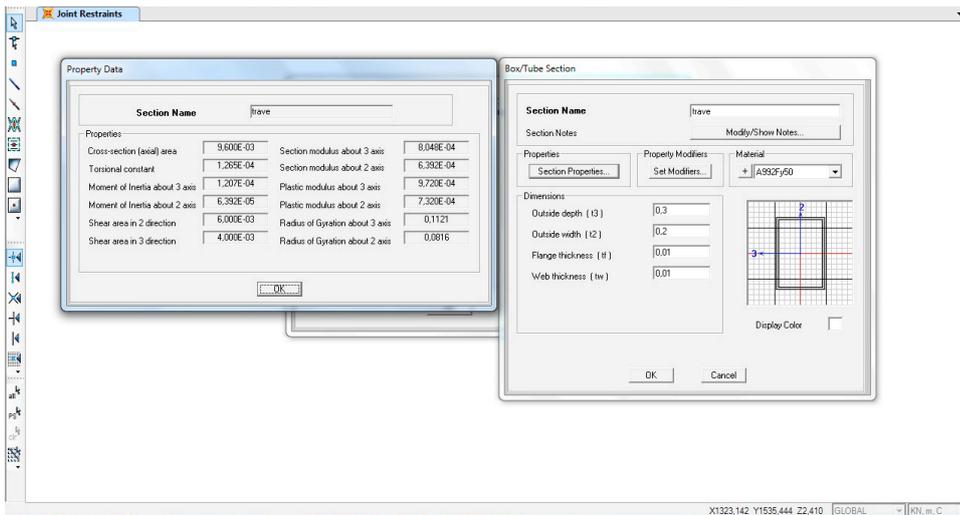
ESERCITAZIONE LINEA ELASTICA SAP2000

Disegnare una trave lunga 5 m divisa nel punto in cui lo spostamento è massimo ($0,57L = 2,85$ m) e assegnare i vincoli.

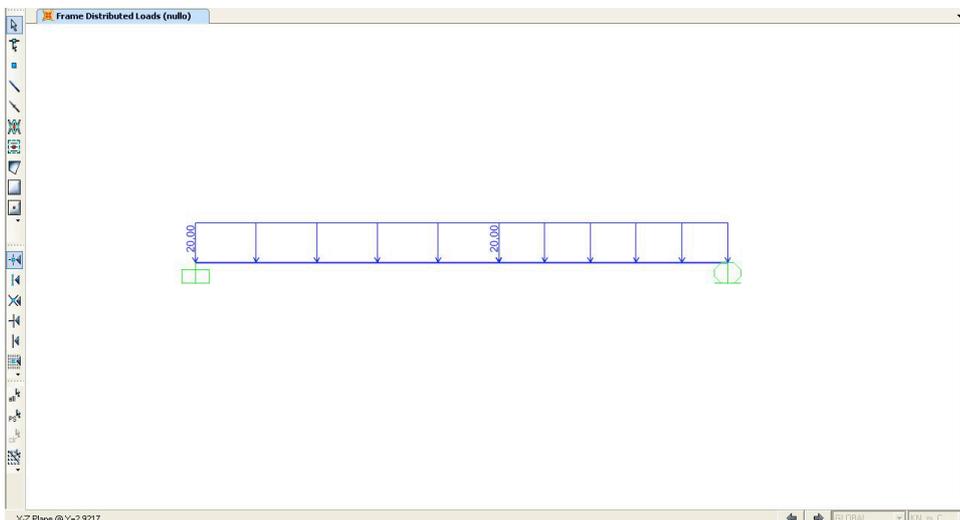


Assegnare il peso nullo: Define_Load patterns

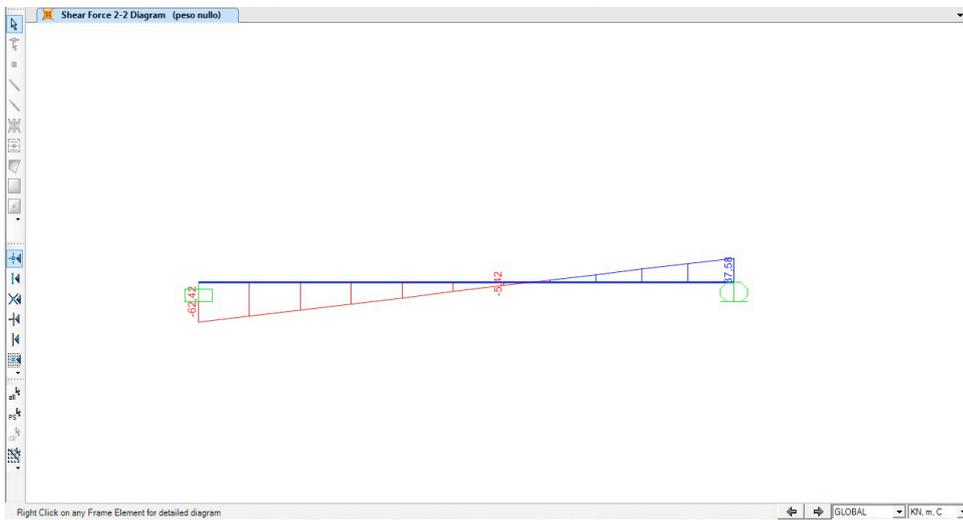
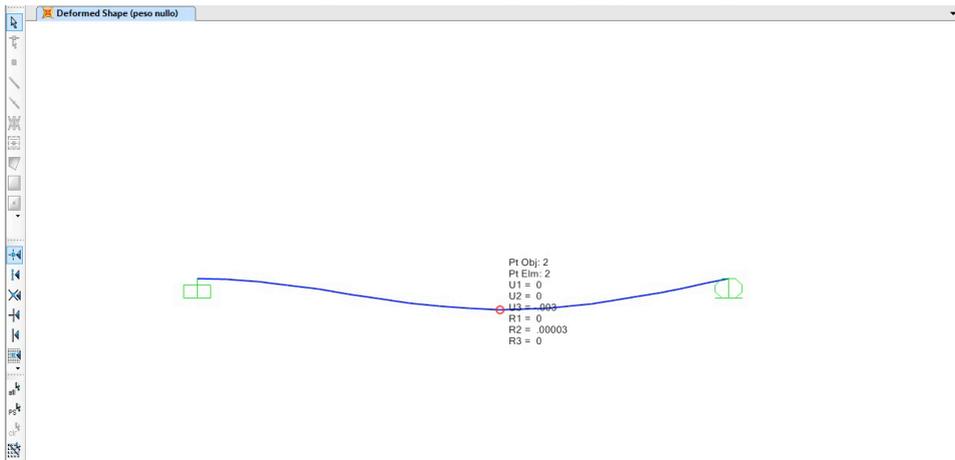
Definire il materiale e la forma della trave: Define_Frame section, e assegnarli



Assegnare un carico distribuito pari a 20KN: Assign_Frame loads_Distributed



Lanciare l'analisi cliccando su 'Run now' e verificare la deformata e i diagrammi del taglio e momento



Guardo le tabelle per vedere il valore esatto dello spostamento verticale: Display_Show tables_Analisys results_Joint Displacement
E notiamo come il valore calcolato da SAP (2,9mm) sia pressoché identico a quello calcolato a mano (2,8 mm).

The screenshot displays the 'Joint Displacements' table in SAP software. The table has the following columns: Joint, Output Case, Case Type, U1 (m), U2 (m), U3 (m), R1 (Radians), R2 (Radians), and R3 (Radians). The data is as follows:

Joint	Output Case	Case Type	U1 m	U2 m	U3 m	R1 Radians	R2 Radians	R3 Radians
1	peso nullo	LinStatic	0	0	0	0	0	0
2	peso nullo	LinStatic	0	0	-0.00296	0	0.000028	0
3	peso nullo	LinStatic	0	0	0	0	-0.002198	0

The interface also shows a status bar at the bottom with 'Ready', 'Start Animation', and 'GLOBAL' indicators.